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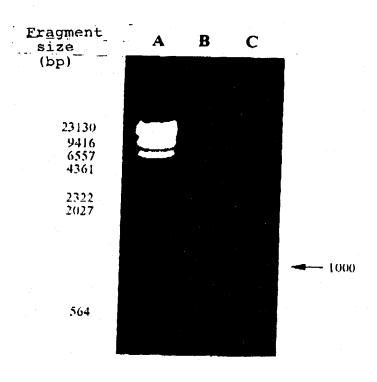


FIGURE 1

OBLON ET AL (703) 413-3000 DOCKET # 192863U SOPCEHEET 2 OF 2

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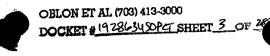
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	, , }					2	/28									
	1001	VYNEYIS	VYNEYIS	200	LSRENDE	CSRENEE	300	LGEKYHK	LCEKYIIK	400			500			
	96	TKRVH NNI	FKRVII NNI	190	DEVPT FTE	QETPV FTE	290	IVKII TKK	VVKII TKK	390	YEDIS KL	YEDIS KL	430			
	8-	LL RRRPG	SLL RRRFC	180	RRG LEGKE	RRG LECKE	280	DYN LOPEI	DAW LOPSI	380 	GRR VEGIQ	GRR VEGIC	480			
		EFRNDFLI	EFRNDFL	170	KFIEEQV	A KFIEEQV	270	E KKRTART	E KKRTART	370	V IETGPLK	V IETGPLK	470			
	-	<b>QQFMDYFSE</b>	<b>POOFMDYFSE</b>		OCTODEEKT	DOLODEEKT	74	LDEIMEIER 1	LDRIMELEE		NEKTFSAT I	NEKAFSATI	4			
	09	RQLLLASEN F	PROLLLASEN I	160	QLELEKKKK (	ROLELEKKKK	260	SKEKKKKKSA	AQPAKKKKSA LDEIMELEEE KKRTARTDAW LQPSIVVKII TKKLGEKYIIK	360	RCNECTLESI	RGNECTLESI	460			
	20	KCHCMSESH C	KCKCMSESH C	150	IDROPETIR	IDROPETIR	250	KESSQSSTQ		350	KRILVLNOGY	KRVLVLNGGY	450			
	60	ZKOCRDENG F	2KQCRDENG F	140	ETPKGMYIQ Y	ETPKGWYIQ Y	240	TIGSSASVK F	LLGSAASGK	340	LETVIPAPG	LETVIPAPG	440			
	30	NERWYCOM CO	DKLRWYCOM CO	130	LGREGLCKV D	LGREGLCKV D	230	SSTLGPSAL K	SSSLGPSAL K	330	CDKLKLDQT H	GDRLKLDQT I	430	·		
	20 20	IANRIKSKO LA	LANRIKSKG LA	120	HETCTOFTK W	WETLTOFTK W	220	CSSSGATSS K	GCSAGATTS K	320	YTAVVKHID S	YTAVVKMTD 5	420			
	1	MCKSDFLTPK AIANRIKSKO LQKLRMYCQM CQKQCRDENG FKCHCMSESH QRQLLLASEN PQQFMDYFSE EFRNDFLELL RRRFGTKRVH NNIVYNEYIS	MOKSDFLSPK AIANRIKSKG LQKLRWYCQM CQKQCRDENG PKCHCMSESH QRQLLLASEN PQQFMDYFSE EFRNDFLELL RRRECTKRVH NNIVYNEYIS	110	HREHIHMMAT GHETLIDFIK HLGREGLCKV DETPKGHYIQ YIDRDPETIR RQLELEKKKK QDLDDEEKTA KFIEEGVRRG LEGKEGEVPF FTELSRENDE	hrehihmmat qwetltoftk wlgregicku detpkgwyiq yidrdpethr rqlelekkkx qdlodeekta kfieeqvrrg legkeqetpu ftelsrenee	210	EKVTENLSKG ACSSSGATSS KSSTLGPSAL KTIGSSASVK RKESSQSSTQ SKEKKKKSA LDEIMEIEEE KKRTARTDYW LQPEIIVKII TKKLGEKYHK	EKVTENLINKG AGGSAGATTS KSSSLOPSAL KLLGSAASGK RKESSQSS	310	KKAIVKEVID KYTAVVKMID SGDKLKLDQT HLETVIPAPG KRILVLNOGY RGNEGTLESI NEKTFSATIV IETGPLKGRR VEGIQYEDIS KLA	KKGVVKEVID RYTAVVKMTD SGDRLKLDQT IILETVIPAPG KRVLVLNGGY RGNEGTLESI NEKAFSATIV IETGPLKGRR VEGIQYEDIS KLA	410			
	Hskin-Imakin pep 16 10 1797	hsKin17.pep M	mKin17.pep		nsKin17.pep	mmKin17.pep		nskin17.pep	mmKin17.pep		nsKin17.pep	makin17.pep		sKin17.pep	mmKin17.pep	
,	HsK.	ls.	Ā		hsk	E Y		131	3		135	<u> </u>		Š	E	

FIGURE 2A

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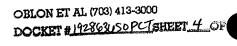
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	01	2	9	0 40	) 05 0	09	06		6 08	90 100	
nsKin17. seq	TGATTCGAGC	TCGGTACCCG	TGATTCGAGC TCGGTACCCG GGGATCCGAT	1 .	TAGAAAGIGA TCOCTGCCGT GGTCGCCATG GGGAAGTCGG ATTITICITAC TCCCAAGGCT ATCGCCAACA	GGTCGCCATG	GGGAAGTCGG	ATTTTCTTA	TCCCAAGGC	T ATCCCCAACA	
mmKin17.seq						ATG	GGCAAGTVCG	ATTTTCTGAG	CCCCAAGGC	ATG GGCAAGTCGG ATTTTCTGAG CCCCAAGGCC ATCGCCAATA	
	=	12	0.	140	150	0 160	0 170		180	190 200	
nskin17.seg	GGATCAAGTC	CAAGOGGCTG	GGATCAAGTC CAAGGGCTG CAGAAGCTAC		CCAGATGTGC	CAGAAGCAGT	OCCGGGACGA	GAATGGCTT	r AAGTGTCAT	CCTOGTATTO CCAGATGTGC CAGAAGCAGT OCCGGGACGA GAATGGCTTT AAGTGTCATT GTATGTCGA	
wKinl7.seg	GAATTAAGTC	CAAAGGGCTC	GAATTAAGTC CAAAGGGCTC CAGAAGCITC		CCAGATOTOC	CAAAAGCAAT	GCCGCGACGA	GAATGCCTT	r AAGTETCAC	GCTOGTACTO CCAGATGTGC CAAAAGCAAT GCCGCGACGA GAATGGCTTT AAGTGTCACT GTATGTCTGA	
	211	0 220	2 5	30 240	250	0 260	0 27		280 2	290 300	3,
nskinl7.seq	ATCTCATCAG	AGACAACTAT	ATCTCATCAG AGACAACTAT TGCTGGCTTC	١	I CAGCAGTITIA	TGGATTATTT	TTCAGAGGAA	TTCCGAAAT	3 ACTITICITAG	AGAAAATCCT CAGCAGTTTA TGGATTATTT TICAGAGGAA TTCCGAAATG ACTTTCTAGA ACTTCTCAGG	/28
mmKin17.seg	ATCTCATCAA	AGACAACTGT	ATCTCATCAA AGACAACTGT TGCTGGCTTC	C AGAAAACCCT	F CAGCAGTITTA	TOGATTATTT	TYCAGAGGAA	TTCCGAAATI	3 ACTITICING	AGAAAACCCT CAGCAGTITA TOGATTATIT TICAGAGGAA TICCGAAATG ACTITCTGGA ACTICTCAGG	
	0 2 5 0	0 320	3.	30 34	350	360	0 37	0	380 3	390 400	•
nsKin17.seq	AGACOCTETIC	GCACTAAAAC	AGACOCTITIC GCACTAAAAG GGTCCACAAG	1	T ACAACGAATA	CATCAGCCAC	CGAGAGCACA	TCCACATGA	A TECCACTICA	AACATTETET ACAAGGAATA CATCAGCCAC CGAGAGCACA TCCACATGAA TGCCACTCAG TGGGAAACTC	
mwKin17.seq	CCACGCITTE	GCACTAAAAG	CCACGCITING GCACTAAAAG GGICCACAAC		i' acaatgaa'i'a	CATCAGCCAC	CGAGAGCACA	TCCACATGA	A CGCTIACCCA	AACATTETET ACAATGAATA CATCAGECAE CGAGAGCACA TECACATGAA EGETACECAG TEGGAGACAE	
	4	0 420	43	0	440 450	0 460	0 470		480 4	490 500	
nskin17.seq	TCACTCATTT	TACTAAGTOC	TUACTICATITY TACTARGING CINGGCAGAC		CANAGIOGAC	GAGACACCAA	AAGGCTGGTA	TATTCAGTA	C ATAGACAGO	AAGSCTTGTG CAAAGTOGAC GAGACACCAA AAGGCTGGTA TATTCAGTAC ATAGACAGGG ACCCAGAAAC	
mmXin17.seq	TOACCGACTT	TACCAAGTUK	NVACCGACIT TACCAACTUG CINGGCAGAG	G AGGCCTTCIN	; TAAAGTUGAT	GAGACACCGA	AAGGCTOGT	CATTCAGTA	C ATRGACAGA	ACCIONINI TAAAGTUGAT GAGACACCIA AAGGCTUCTA CAITVAGTAC ATAGACAGAG AGCCAGAAAC	

FIGURE 2B

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4/28 GAAGGGAAAG AGCAGGAGAC ACCTGTTTTT ACAGAACTTA GCCGAGAAAA TGAGGAAGAA AAAGTTACGT TCAATCTGAA TAAAGGAGCG GGTGGCTCAG TATECGECOG CAACTOGAAC TOGAGAAAA GAAAAAGEAG GACETTGATG ATGAAGAAAA AACTOCUAAA TTTATTIGAAG AGCAAGTGAG AAGAGGECTU CATCCGTCGG CAACTGGAAT TAGAAAAAA GAAGAAGCAA GATCTGGACG ATGAAGAAAA AACTGCCAAG TTCATTGAGG AGCAGGTGAG AAGAGGCCTG GAAGGGAAGG AACAGGAGGT CCCTACTITT ACGGANITAA GCAGAGAAAA TOATGAAGAG AAAGTCACGT TTAATITIGAG TAAAGGAGCA TGTAGCTCAT CEGGAGEAAC ATEITECAAG TEAAGTACTE TOGGACEGAG TOCACTGAAG AGGATAGGAA GITEAGCATE AGTGAAACGA AABAATETT CECAGAGETE COGGAGCTAC AACATCCAAG TCAAGCTCTT TGGGACCAAG TGCACTGAAG CTGCTGGGGA GCGCAGCATC CGGGAAACGG AAAGAGTCTT CACAGAGCTC 590 680 (continued) 2B FIGURE 650 540 640 730 mKin17. seq skin17.seq skin17.seq mKin17.seq iskin17. seq mKin17.seq

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hsKin)7-makin17	16 10 1997	15 59									l
	910	820	0.8	840	0 850	098	870	088	058	006	Į
hsKin17.seg	AACTCEGTCT	AAAGAAAAGA	AGAAAAAGAA	Archecacre	GATCAAATCA	TOGAGATICA	AACTCEGTCT AAAGAAAAGA AGAAAAAGAA ATCTGCACTG GATGAAATCA TGGAGATTGA AGAGGAAAAG AAAAGAACTG CCCGAACAGA CTACTGGCTA	AAGAACTG CC	GAACAGA CTAC	TOGCTA	
mmKin17.seq	CGCCCAGCCT		AGAAGAAGAA	crececers	GATCAGATCA	TOGAGCTCGA	OC GA AGAAGAAGAA GTCGGCCCTG GATGAGATCA TOGAGCTCGA AGAGGAAAAG AAAAGGACCG CACGSACAGA CGCCTGGTTA	AAGGACCG CAC	COSACAGA CGCC	TGGTTA	
	910	920	930	940	0 850	096 (	970	986	066	1000	
nskin17.seq	CAGCCTGAAA	TTATTCTGAA	AATTATAACC	AAGAAACTGG	GAGAGAAATA	TCATAAGAA	CAGCCTGAAA THATICTGAA AATTATAACC AAGAAACTGG GAGAGAAATA TCATAAGAA AAAGGCTATT GTTAAGGAAG TAATTGACAA ATATACAGCT	TAAGGAAG TA	ATICACAA ATAT	ACAGCT	
mmKin17.seq	CAGCCGGGGA 1	TCGTTCTCAA	AATTATAACG	AAGAAGCTTG	GGGAGAATA	TCACAAGAAG	CAGCCOGOGA TCOTTOTGAA AATTATAACG AAGAAGCTTG OQGAGAAATA TCACAAGAAG AAAGOOG TC GTTAAGGAAG TGATTGACAG GTACACGCT	TAAGGAAG 10	ATTGACAG GTAC	ACAGCT	
	\$010	1020	20 1030	0 1040	1050	0 1060	0 1070	1080	1090	1100	
nsKinl7.seq	GTTCTGAAGA 1	TCATTICATTIC	TOGAGACAAG	CTGAAACTTG	ACCAGACTCA	TTTAGAGACA	GTIGTGAAGA TGATTGATTC TGGAGACAAG CTGAAACTTG ACCAGACTCA TTTAGAGACA GTAATTCCAG CACCAGGAAA AAGAATTCTA GTTTTAAATG	CCACCAAA AAC	SAATTCTA GTTT	PAAATC	
mmKin17.seq	GTCCTRAAGA 1	TGACTGACTC	TOGAGACAGG	CTGAAACTGG	ACCAGACTCA	TTTAGAGACA	GIUCTRAAGA TGACTGACTC TGGAGACAGG CIGAAACTGG ACCAGACTCA THTAGAGACA GTCATTCCOG CCCCGGGGAA AAGGGTICTA GTFTTAAATU	CCCCCCAA AA	SCCTICTA CPIT	TAAA?PC	
······	סנננ <u> </u>		20 113	P11 0	115	0 116	0 1170	1180	1190	1200	5
nsKin17.seq	GAGGCTACAG	AGGAAATGAA	GETACCETAG	AATCCATCAA	TGAGAAGACT	TTTTCAGCTA	GAGGCTACAG AGGAAATGAA GGTACCCTAG AATCCATCAA TGAGAAGACT TTTTCAGCTA CTATCGTCAT TGAAACTGGC CCTTTAAAAG GACGCAGAUT	AAACTOGC CC	TTTAAAAG GACG	CAGAGT	/28
mmKin17.seq	GAGGCTACAG	AGGAAATGAA	GCACTCTCG	AATCCATCAA	TGAGAAGGCT	TTTTCAGCCA	GAGGCTACAG AGGAANGAA GGCACTCYCG AATCCATCAA TGAGAAGGCT TITICAGCCA CGATAGTCAT TGAAACTGGA CCTTIGAAAG GACGCAGAGT	AAACTOGA CC	TITGAAAG GACG	CAGAGT	3
	1210	1220	20 1230	0 1240	1250	0 1260	0 1270	1280	1290	90001	
hsKinl7.seg	TCAAGGAATT	CAATATGAAG	ACATTTCTAA	ACTTGCCTGA	GTTTGAAAAT	TTGTTAACAA	TGAAGGAATT CAATATGAAG ACATTTCTAA ACTTGCCTGA GTTTGAAAAT TTGTTAACAA TACCTTTAAA ATCT TAAAG CATCAAATTG GTGTTCGC	CT TAMAG CA	TCAAATTG GIGT	TCGC	
mmKin17.seq	TCAAGGTATT (	CAATATGAAG	ACATATCTAA	ACTTGCTTGA	GTTTGAAAAT	TTGATAACAA	TOARGOTATT CAATATGAAG ACATATCTAA ACTITGCTTGA GTFTGAAAAT TTOATAACAA CACA TTGAA A CTGTGAAG CATCAAATTG GTGTTAGCCA	CTGTGAAG CA'	TCAAATTG GTGT	TAGCCA	
	1310	טבננ נ	20 1330	0 1340	0361 01	0 1360	0 1370	1380	1390	1400	
nsKin17.seq										_	
mmKin17.seq	AGGCACTGTG '	TAACTCTACT	CTCTTAGGGG	ATTIGITITIC	TATTAAAAAA	AAAAAATCA	AGGCACTGTG TAACTCTACT GTGTTAGGGG ATTTGTTTTG TATTAAAAA AAAAAAATCA TCTATTTAAA TACTAGTGAA TAGTTGGGTA AATTTATAAT	ACTAGTGAA TA	CTTGCCTA AATT	TATAAT	
	1410	1420	20 1430	1440	1450 1450	0 1460	1470	1480	1490	1500	
nsKin17.seg	# # # # # # # # # # # # # # # # # # #	4048899	AND THE REPORT OF THE PROPERTY AND THE P	************							.•
mmKin17.seq	AAAATCTATG	<b>TITITITI</b>	aaaatetatg iytiyittaa gtgtaaaaa aaaaaaaaa aaaaaaaa aaaaaa	AAAAAAAAA	AAAAAAAA	AAAAA					
					FIGUE	FIGURE 2B (co	(continued)	:			

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A

heart
brain
placenta
lung
liver
skeletal muscle
kidney

Kin-17

lung livel skel kidn

β Actin

\$---**-**

thymus
prostate
testicle
ovary
small intestine
colon
peripheral blood leukocyte

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FIGURE 3A

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B

HL-60 Hela S3 K-562 Molt-4 Raji SW480 A 549 G 361

Kin-17



 $\beta$  Actin

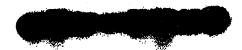


FIGURE 3B

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FIGURE 4A

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OBLON ET AL (703) 413-3000 DOCKET #/92863450 PCT SHEET 9 OF 20

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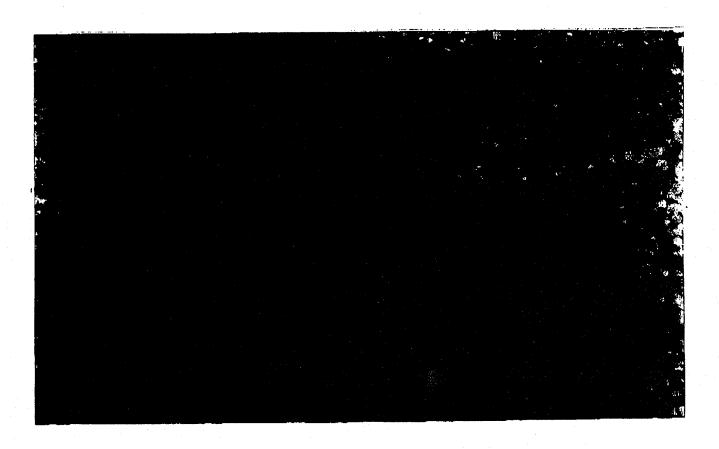
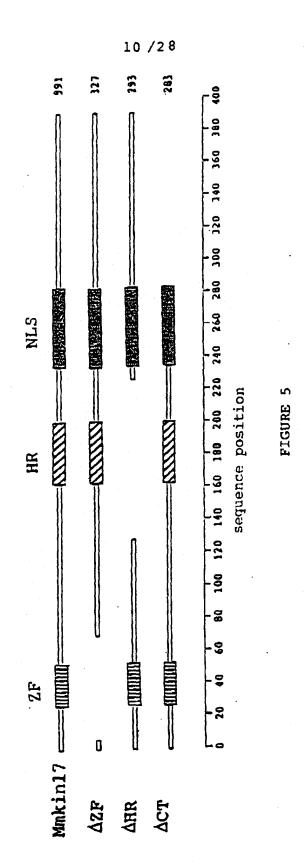


FIGURE 4B

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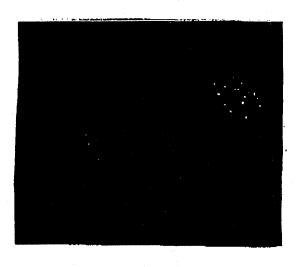


FIGURE 6A



FIGURE 6B

OBLON ET AL (703) 413-3000 DOCKET # /92863450 PCT SHEET /2 OF



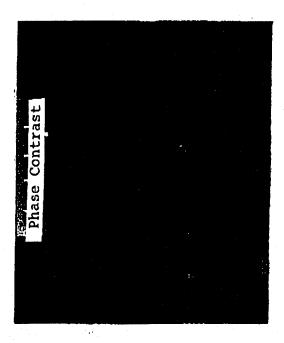
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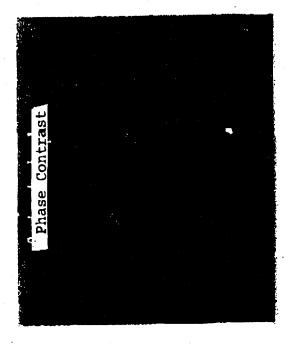
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FIGURE 7B FIGURE 7A





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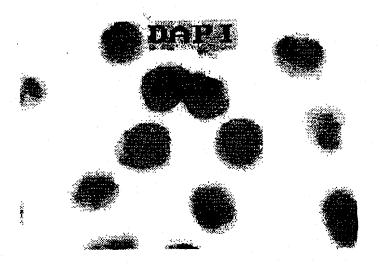
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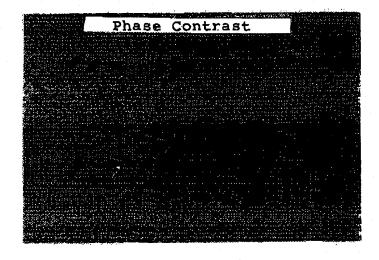


FIGURE BY

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OBLON ET AL (703) 413-3000 DOCKET # /92863450 PCT SHEET 14 OF

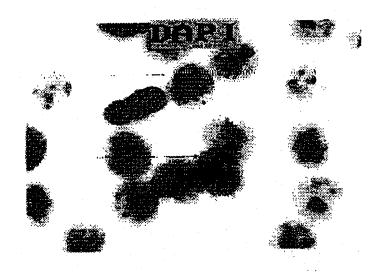
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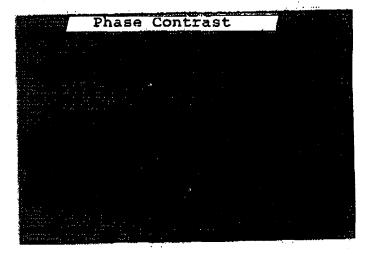
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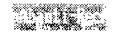


EXGURE 8B

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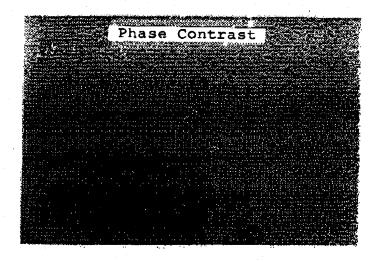


FIGURE 9



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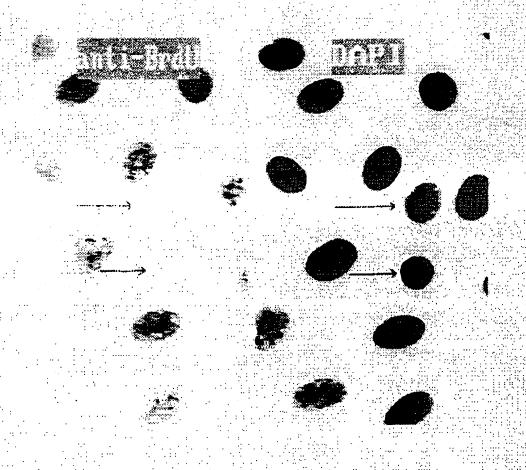


FIGURE 10A :-

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Protein expressed	none	kin17	117	kin∆HR	kin∆CT
		low level	low level high level		
<pre>% of cells replicating their DNA.</pre>	40	40	0	0	33

FIGURE 10B

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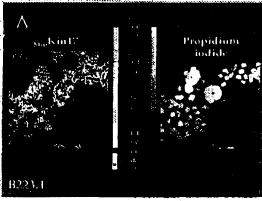
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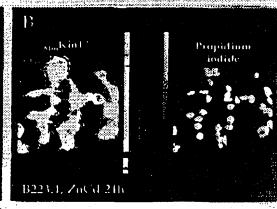
PCT/FR98/02667

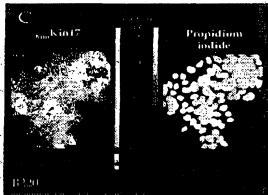
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FIGURE 12A

FIGURE 12B







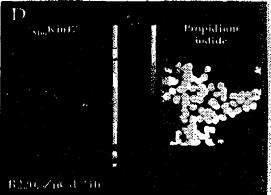
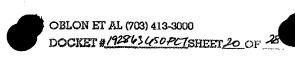


FIGURE 12C

FIGURE 12D



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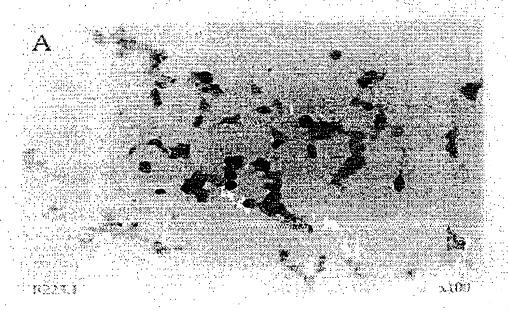


FIGURE 134

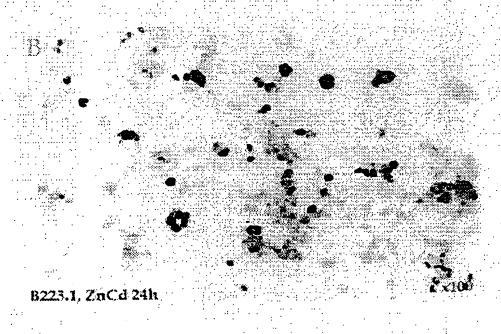


FIGURE 138

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FIGURE 130.

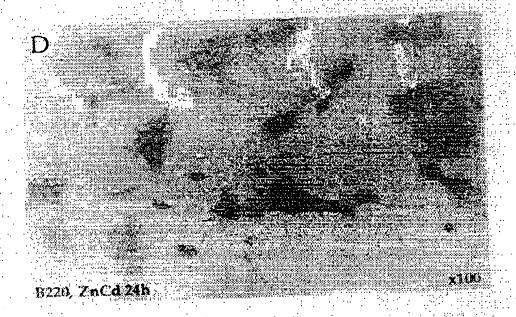


FIGURE 13D

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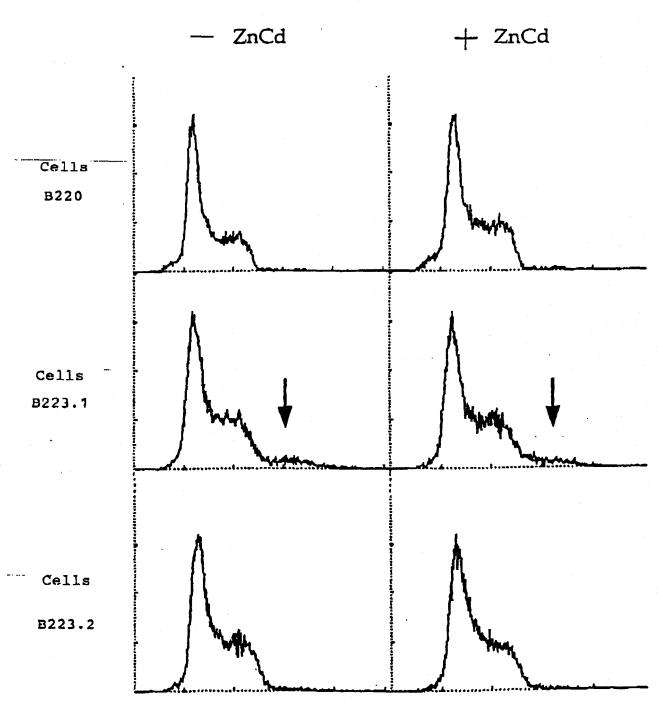


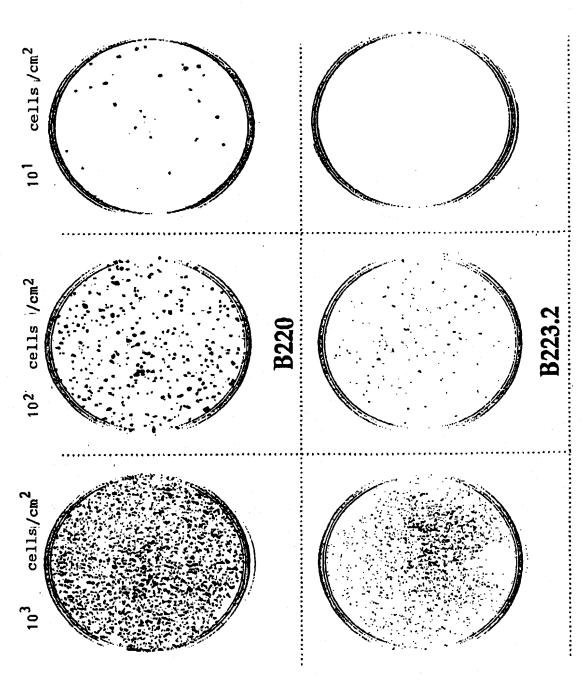
FIGURE 15

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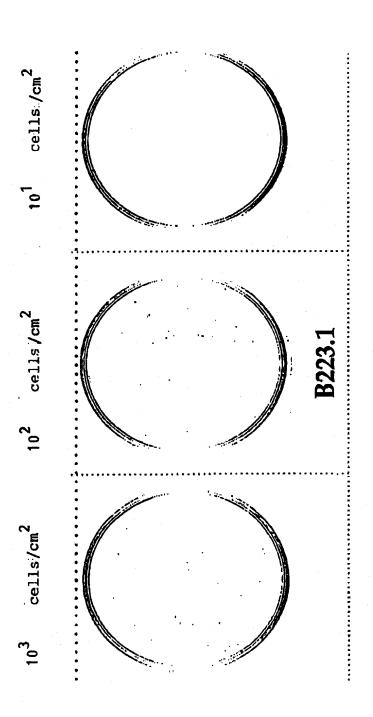


FIGURE 16 (continued)

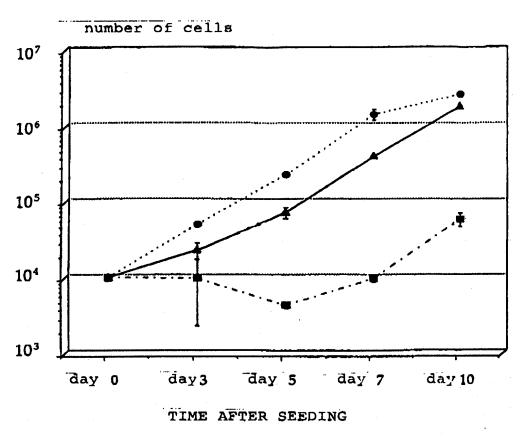
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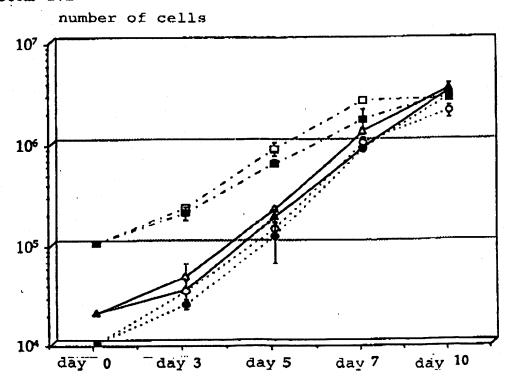
27/28

PCT/FR98/02667





## FIGURE 17B



TIME AFTER SEEDING
REPLACEMENT SHEET (RULE 26)

Fax émis par: 33 01 45 62 04 86

\D W C

le 06/06/00 15:56 A4 NORM Pg: 29/29

OBLON ET AL (703) 413-3000 DOCKET #/92863US OPT/SHEET 28 OF 28 09/555529

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28 /28

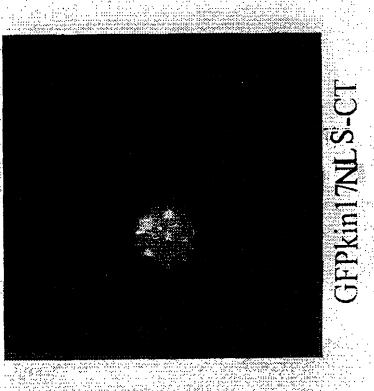


FIGURE 18B

GFPKm17DCT

FIGURE 18A

REPLACEMENT SHEET (RULE 26)